

A vibrant field of yellow and pink flowers under a blue sky with light clouds. The foreground is filled with tall yellow flowers and purple spikes, with pink flowers scattered throughout. The background shows a line of green trees under a bright blue sky with wispy white clouds.

Best Place to Cool Off at the Zoo

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Where is the best place to cool down at the zoo?



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Hypothesis

We think that mulch will be the coolest location and best place to relax.



Variables

Dependent Variable (measuring)

- Air Temperature
- Surface Temperature



Independent Variable

(Changing) Locations

- Mulch
- Prairie
- Cement



Materials

- Meat thermometer
- Stop watch
- Clipboard (block sun)
- Surface Temperature Thermometer



Surface Temperature Step by Step Procedures:

1. Walk to the middle of the prairie, cement, mulch
2. Hold arm out horizontally from body
3. Click thermometer and check the reading
4. Repeat steps 1-4, NINE times.
5. Record Temperature



Air Temperature

Step by Step Procedures:

1. Walk to the middle of the prairie, cement, mulch
2. Hold the thermometer 5ft of the ground.
3. Time for 1 min
4. Use a clipboard to block of the sun for hitting the air temperature
5. Read the temperature
6. Repeat steps 2-4, **THREE** locations



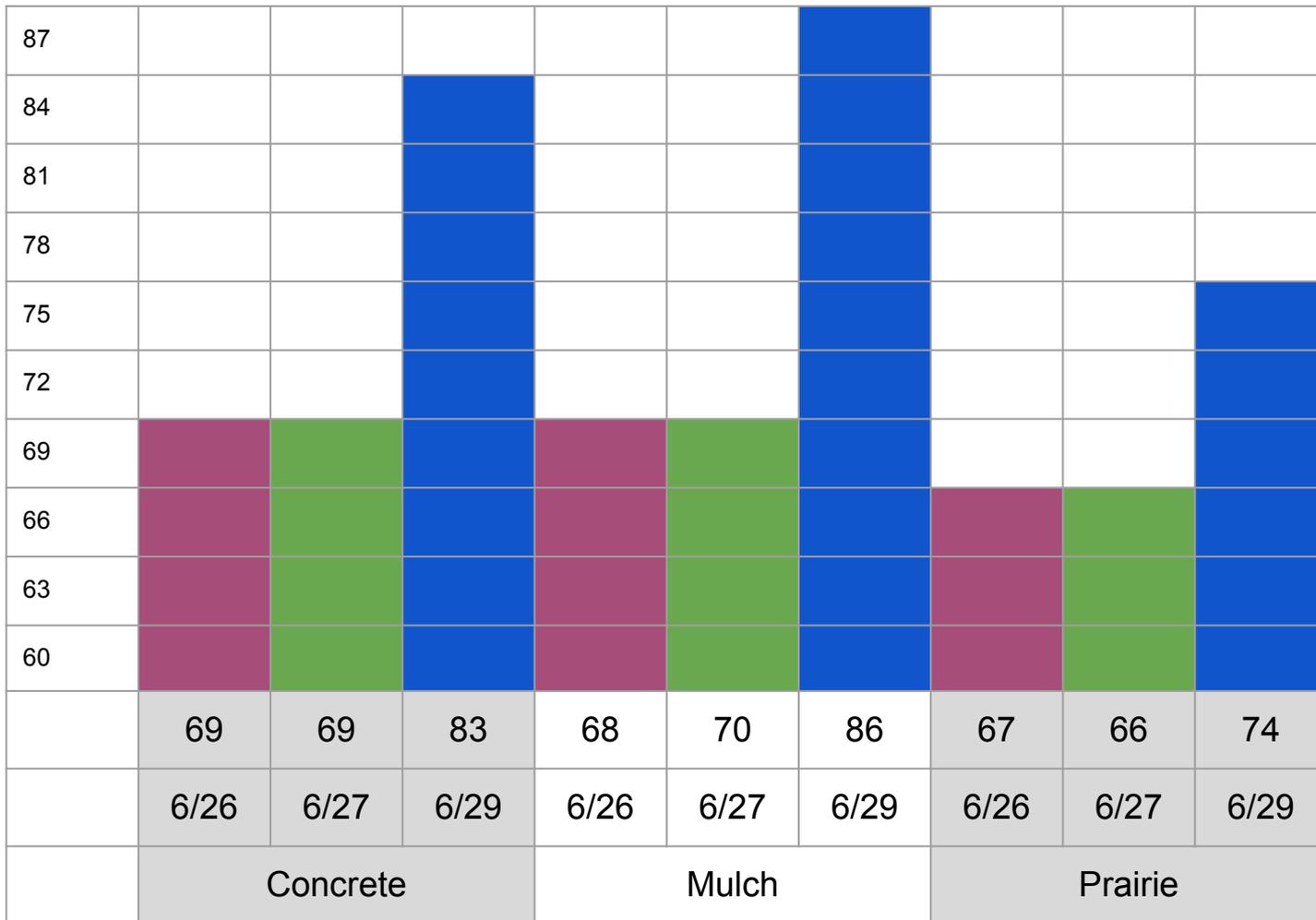
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**Data
Collected**

	6/26	6/27	6/29	6/26	6/27	6/29	6/26	6/27	6/29
AIR	68	66	77.8	68	66	77.7	68	66	78.6
Weather	rain/ cloudy	100% smoke/clo uds	70% Scattered clouds	rain/ cloudy	100% smoke/clo uds	70% Scattered clouds	rain/ cloudy	100% smoke/clo uds	70% Scattered clouds
1	69	66	86	70	71	81	68	67	72
2	68	75	86	68	72	86	68	67	72
3	69	75	75	68	69	88	66	68	73
4	69	64	82	68	69	81	68	66	72
5	68	75	83	68	69	89	67	66	72
6	68	73	83	68	71	87	67	65	74
7	68	66	82	68	70	81	67	66	77
8	68	66	83	68	70	90	67	66	77
9	69	66	82	68	70	88	67	66	78
	Concrete			Mulch			Prairie		

Results:

Where is the best place to cool down at the zoo?



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	Concrete	Mulch	Prairie
6/26 Average rain/ cloudy	69	68	67
6/27 Average 100% smoke/clouds	69	70	66
6/29 Average 70% Scattered clouds	83	86	74
Cumulative Average	73.6	74.6	69
Observations		Water in mulch on 6/29 could affect reading.	
Overall Conclusion	<p>Based on our data, the best place to cool down is in the prairie..</p> <p>We notice that the differences are easier to observe on a less cloudy day.</p> <p>We will continue to take measurements over a longer period of time to see if our results are consistent.</p>		

Conclusions